

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~Optical~~ An optical detector system ~~(35)~~ comprising at least two optical detector units ~~(60; 70)~~ for receiving light generated from at least two lasers, respectively, each optical detector unit ~~(60; 70)~~ comprising an array ~~(61; 71)~~ of detector segments ~~(62a-d; 72a-d)~~ and at least one output terminal ~~(63a-d; 73a-d)~~ defining a current output of the corresponding optical detector unit ~~(60; 70);~~

wherein at least one current output ~~(63a)~~ of a first optical detector unit ~~(60)~~ is connected directly to a corresponding current output ~~(73a)~~ of a second optical detector unit ~~(70)~~ at an output node ~~(80a)~~, and

wherein only a first detector unit of the at least two optical detector units is operative, as determined by an identity of a first laser in use of the at least two lasers, a second detector

unit of the at least two optical detector units being non-operative by virtue of not receiving light from a second laser of the at least two lasers so that an output of the second detector unit is floating and does not affects output signals produced by the first detector unit.

2. (Currently Amended) ~~Optical~~ The optical detector system according to claim 1, wherein the two optical detector units (60, 70) are of mutually identical design.

3. (Currently Amended) ~~Optical~~ The optical detector system according to claim 2, wherein the two optical detector units (60, 70) have mutually different wavelength sensitivity ranges.

4. (Currently Amended) ~~Optical~~ The optical detector system according to claim 2, wherein each current output (63a, 63b, 63c, 63d) of the first optical detector unit (60) is connected directly to the corresponding current output (73a, 73b, 73c, 73d) of the second optical detector unit (70) at a corresponding output node (80a, 80b, 80c, 80d).

5. (Currently Amended) ~~Optical~~ The optical detector system according to claim 1, wherein ~~each~~ the second optical detector unit ~~(60; 70) has a~~ in the non-operative state in which its outputs ~~(63a-d; 73a-d) are floating and/or present~~ presents a high input impedance.

Claim 6 (Canceled)

7. (Currently Amended) ~~Optical~~ The optical system ~~(30)~~ for a disc drive apparatus ~~(1)~~, comprising:

an optical detector system according to claim 1;

a signal processing circuit ~~(90)~~ having at least one input terminal ~~(91a-d)~~ connected via a line ~~(81a-d)~~ to a corresponding output node ~~(80a-d)~~ of the optical detector system ~~(35)~~.

8. (Currently Amended) ~~Optical~~ The optical system according to claim 7, wherein said at least one input terminal ~~(91a-d)~~ comprises a current input.

9. (Currently Amended) ~~Optical~~ The optical system according to claim 7, wherein said at least one input terminal ~~(91a-d)~~ comprises a voltage input, and wherein a terminator resistor ~~(82a-d)~~ is connected to said line ~~(81a-d)~~.

10. (Currently Amended) ~~Optical~~ The optical system according to claim 9, wherein said terminator resistor ~~(82a-d)~~ is arranged in the proximity of said signal processing circuit ~~(90)~~.

11. (Currently Amended) ~~Optical~~ The optical system according to claim 9, wherein said terminator resistor ~~(82a-d)~~ is integrated in an IC implementing said signal processing circuit ~~(90)~~.

12. (Currently Amended) ~~Optical~~ An optical system ~~(30)~~ for a disc drive apparatus ~~(1)~~, comprising:

light beam generating means ~~(31, 41)~~ for generating at least two light beams ~~(32, 42)~~;

optical components ~~(43, 44, 37, 34)~~ for directing and focusing the two light beams ~~(32b, 42b)~~ in a focal spot ~~(F)~~ on an optical disc ~~(2)~~;

an optical detector system ~~(35)~~ according to claim 1;
optical components ~~(34, 37, 33, 45, 46)~~ for directing
reflected light beams ~~(32c, 42c; 32d, 42d)~~ to respective optical
detector units ~~(60, 70)~~ of the optical detector system ~~(35)~~.

13. (Currently Amended) ~~Optical~~ The optical system according
to claim 12, wherein said optical components ~~(43, 44, 37, 34; 34,~~
~~37, 33, 45, 46)~~ are arranged such that said light beams ~~(32, 42)~~
have at least partly common light paths.

14. (Currently Amended) ~~Optical~~ The optical system according
to claim 12, wherein said optical components ~~(43, 44, 37, 34; 34,~~
~~37, 33, 45, 46)~~ are arranged such that said light beams ~~(32, 42)~~
have completely separate light paths.

15. (Currently Amended) ~~Optical~~ An optical unit ~~(130)~~
comprising:

~~light beam generating means (31)~~ a first light source
configured for generating a first light beam ~~(32);~~

a second light source configured for generating a second light

beam;

optical components ~~(43, 44, 37, 34)~~ for directing and focusing
at least one of the first light beam ~~(32b)~~ and the second light
beam in a focal spot ~~(F)~~ on an optical disc~~(2)~~;

an a first optical detector unit ~~(60)~~ configured for receiving
the first light from the first light source;

a second optical detector unit configured for receiving the
second light from the second light source; and

optical components ~~(34, 37, 33)~~ for directing a reflected
light beam ~~(32c, 32d)~~ to the first optical detector unit ~~(60)~~ and
the second optical detector unit;

the first optical detector unit ~~(60)~~ and the and the second
optical detector unit each comprising an array ~~(61)~~ of detector
segments ~~(62a-d)~~ and at least one output terminal ~~(63a-d)~~ defining
a current output of the optical detector unit ~~(60)~~;

wherein only the first optical detector unit is operative, as
determined by an identity of a first light source in use, the
second optical detector unit being non-operative by virtue of not
receiving light from a second light source so that an output of the
second optical detector unit is floating and does not affects

output signals produced by the first optical detector unit.

16. (Currently Amended) ~~Disc~~ A disc drive apparatus ~~(101)~~,
comprising an optical system ~~(30)~~ according to claim 7.

17. (Currently Amended) ~~Disc~~ The disc drive apparatus ~~(101)~~,
comprising at least one optical unit ~~(130)~~ according to claim 15.

Claim 18 (Canceled)